

THE AMENDMENT

In the Claims

1. (Currently Amended) A method of producing a dendrimeric structure on a support surface, comprising the steps of:
 - (a) activating a functional group on a support surface with ~~an~~ a first activating reagent,
 - (b) subsequently reacting the activated functional group with a polyamine ~~component, and~~
 - (c) reacting a second activating reagent with a component of the polyamine;
 - (d) repeating step (c) several times; and
 - (e) producing a dendrimeric structure on the support surface,
wherein the first and the second activating reagent is reagents are independently selected from the group consisting of acryloylchloride, 4-nitrophenylchloroformate, carbonyl diimidazole, phenyl chloroformate, phosgene, disphosgene, triphosgene, EDC, N,N'-diisopropyl carbodiimide, dicyclohexyl carbodiimide, disuccinimidyl carbonate, disuccinimidyl oxalate, dimethylsuberimidate dihydrochloride, ~~or~~ and phenylene diisothiocyanate.
2. (Previously Presented) The method according to claim 1, wherein the support is selected from the group consisting of glass, sheets, and films or membranes made from polypropylene, nylon, cellulose, cellulose derivatives, polyether sulfones, polyamides, polyvinyl chloride, polyvinylidene fluoride, polyester, polyethylene and synthetic resinous fluorine-containing polymers.
3. (Previously Presented) The method according to claim 1, wherein the functional group is an amine, hydroxyl, phosphate, carboxyl, carbonyl, thiol or amide group.
- 4-7. (Cancelled)
8. (Previously Presented) The method according to claim 1, wherein the polyamine is tetraethylene pentamine, spermine, spermidine, 4,7,10-trioxa-1,13-tridecanediamine, or 4-

aminomethyl-1,8-octanediamine.

9. (Canceled)

10. (Cancelled).

11. (Previously Presented) The method according to claim 1, wherein a positive charge is built up in a controlled fashion on the support surface.

12. (Currently Amended) The method according to claim 2, ~~wherein the support surface of the dendrimeric structure according to claim 2 is additionally activated further comprising a subsequent step of activating the support surface~~ prior to the attachment of biopolymers.

13. (Previously Presented) The method according to claim 12, wherein the support surface of the dendrimeric structure is additionally activated by an activating agent selected from the group consisting of disuccinimidyl carbonate, disuccinimidyl oxalate, glutaraldehyde, dimethylsuberimidate dihydrochloride, and phenylene diisothiocyanate.

14-19. (Cancelled)

20. (Original) The method according to claim 1, wherein said support is a biochip.

21. (Previously Presented) The method according to claim 2, wherein said support is cellulose derivatives of cellulose acetate or cellulose-mixed ester.